

# ISYE 6501 - Midterm 2 Exam with Questions and Answers

- **when might overfitting occur:** when the # of factors is close to or larger than the # of data points causing the model to potentially fit too closely to random effects
- **Why are simple models better than complex ones:** less data is required; less chance of insignificant factors and easier to interpret
- **if it's good with the current certain**



- **what is forward selection:** we select the best new factor and see enough ( $R^2$ , AIC, or p-value) add it to our model and fit the model w set of factors. Then at the end we remove factors that are lower than threshold
  - process over, then we move with all set of



- **what is backward elimination:** we start with all factors and find the worst on a supplied threshold ( $p = 0.15$ ). If it is worse we remove it and start the process over. We do that until we have the number of factors that we want and then we remove factors lower than a second threshold ( $p = .05$ ) and fit the model

- **selection and**
- **factors and at each step adding each factor appear.**



- **what is stepwise regression:** it is a combination of forward and backward elimination. We can either start with all factors or no factors. At each step we remove or add a factor. As we go through the procedure after adding a new factor and at the end we eliminate right away factors that do not look good
- **what type of algorithms are stepwise selection?:** Greedy algorithms - at each step they take one thing that looks best
- **absolute value**

- **what is LASSO:** a variable selection method where the coefficients are determined by both minimizing the squared error and the sum of their absolute values. Coefficients are set to zero if not being over a certain threshold  $t$

# Midterm Exam Isye

**AW Rasmussen**



**Midterm Exam Isye:**

## Reviewing **Midterm Exam Isye**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Midterm Exam Isye**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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